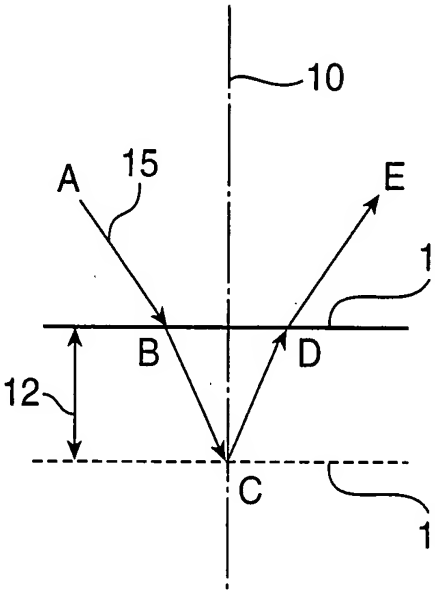
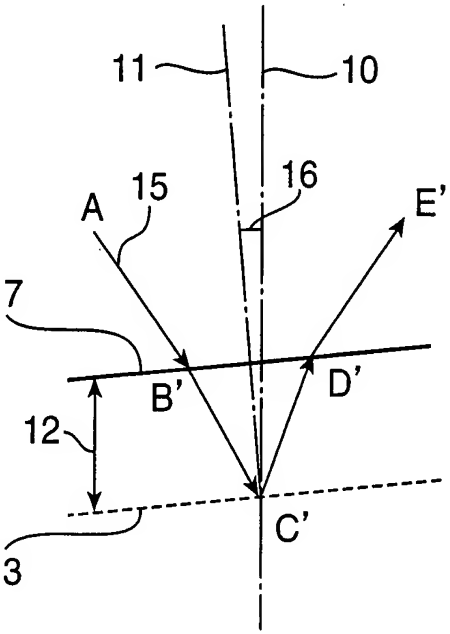
FIG.1A



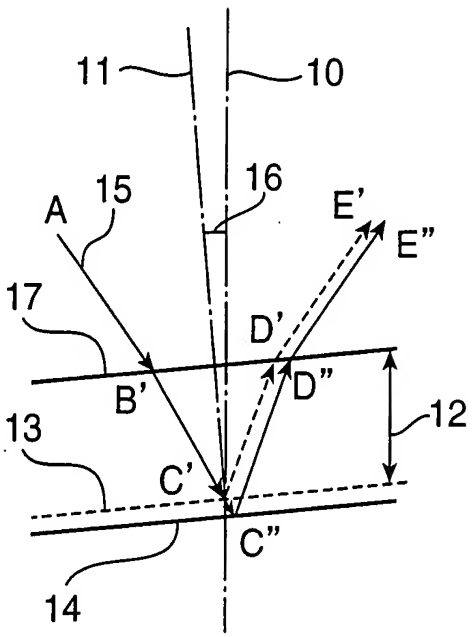
NOT TILTED (FLAT)

FIG.1B



TILTED (FLAT)

FIG.1C



TILTED
(REFLECTED ON
ANOTHER LAYER)

FIG.2

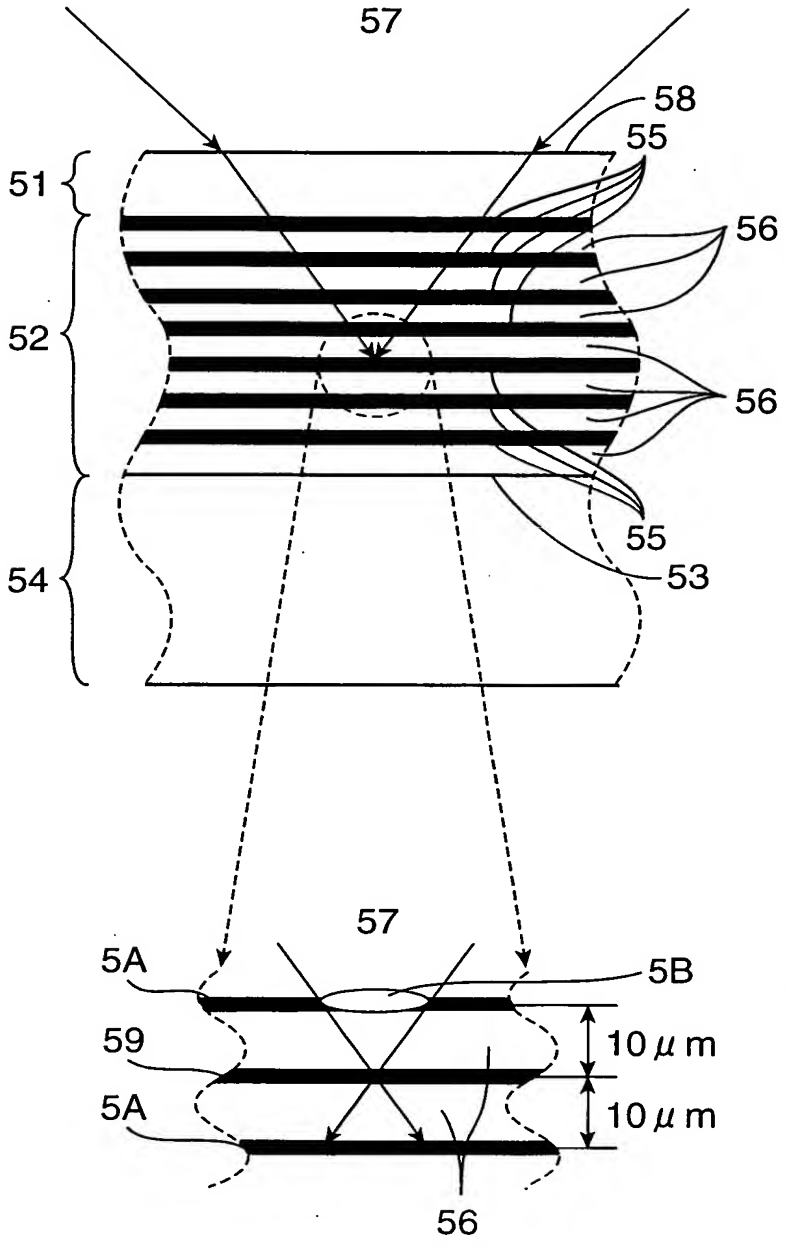


FIG.3

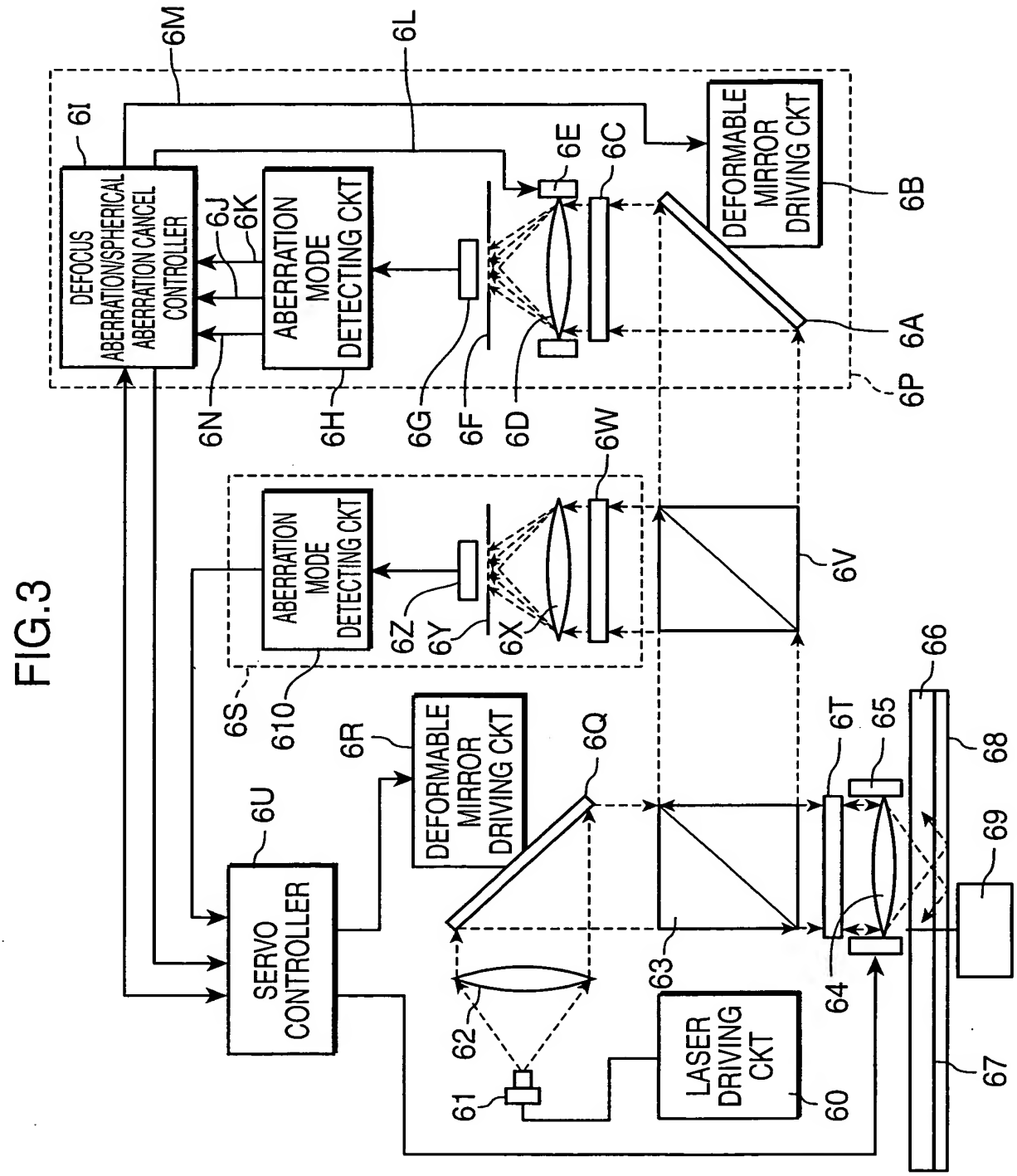
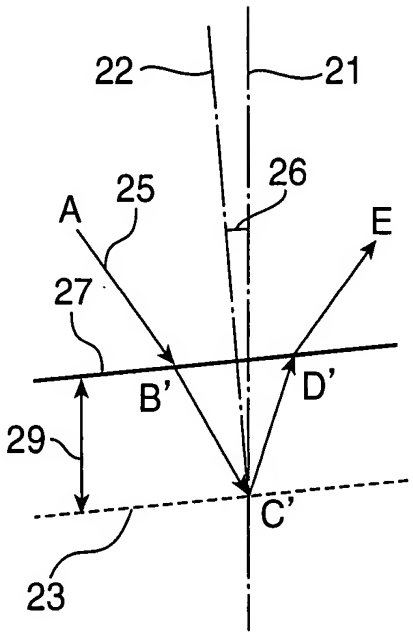
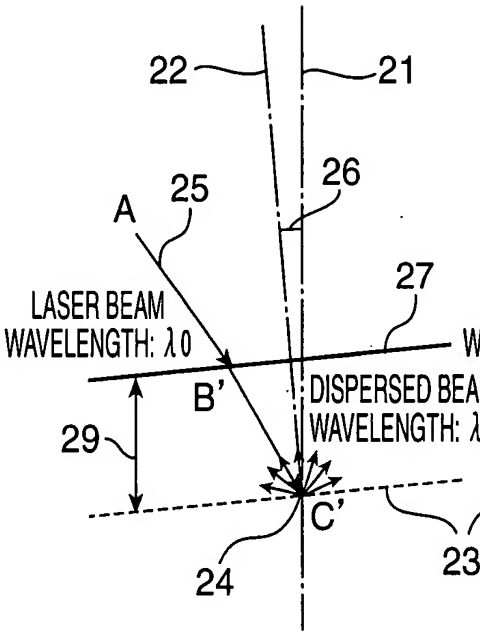

6M
6L
6I
DEFOCUS ABERRATION/SPHERICAL ABERRATION CANCEL CONTROLLER
6J
6K
ABERRATION MODE DETECTING CKT
DEFORMABLE MIRROR DRIVING CKT
6B
6E
6C
6A
6P
6N
6H
6G
6F
6D
6W
ABERRATION MODE DETECTING CKT
6Z
6Y
6X
6V
6S
610
6R
DEFORMABLE MIRROR DRIVING CKT
6Q
6U
SERVO CONTROLLER
6T
65
66
68
69
62
61
63
64
LASER DRIVING CKT
60
67

FIG.4A



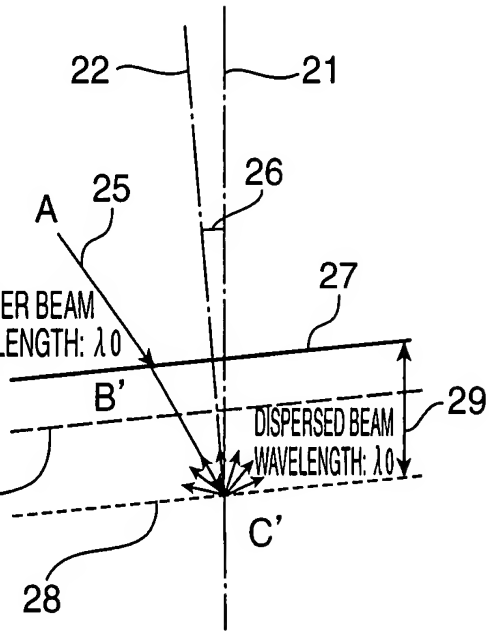
TILTED (FLAT)

FIG.4B



TILTED (DISPERSANT)

FIG.4C



TILTED (DISPERSING LAYER)

FIG.5

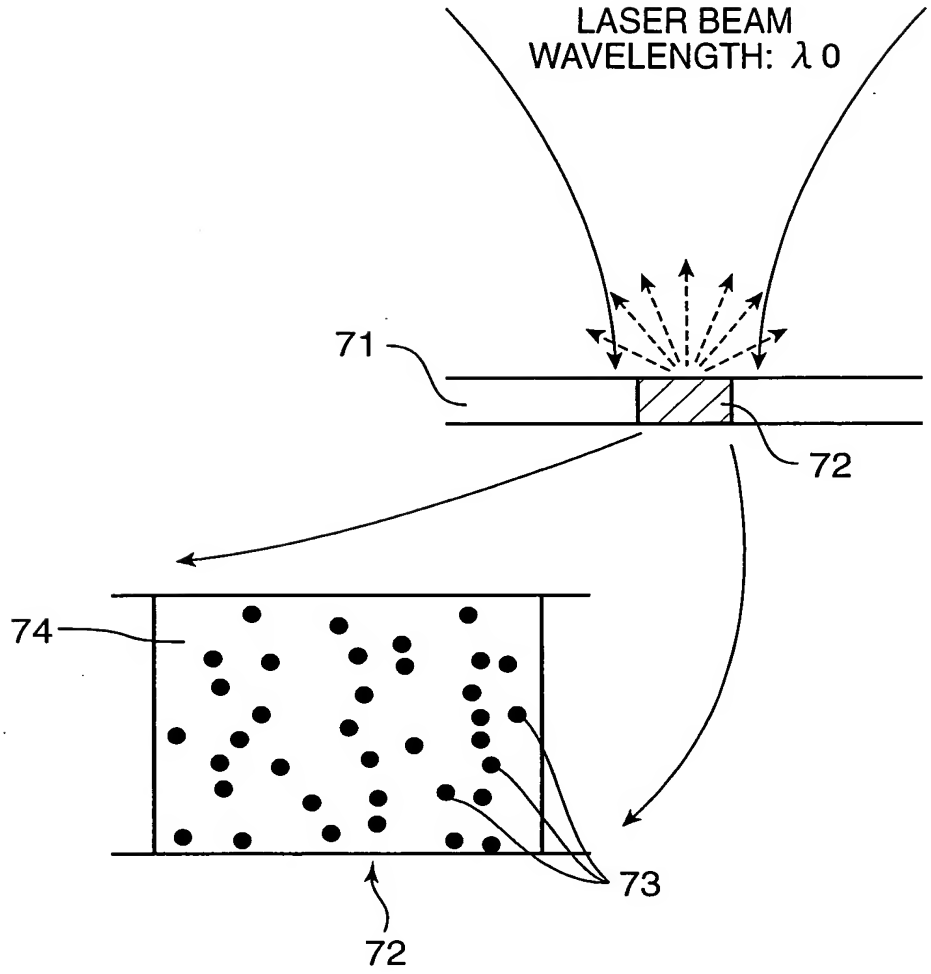


FIG.6A

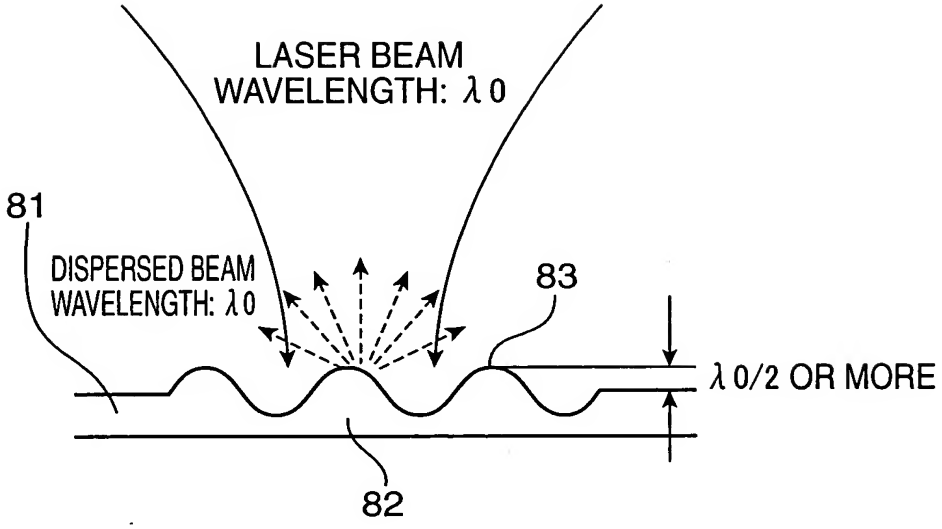

LASER BEAM
WAVELENGTH: λ0
81
DISPERSED BEAM
WAVELENGTH: λ0
83
λ0/2 OR MORE
82

FIG.6B

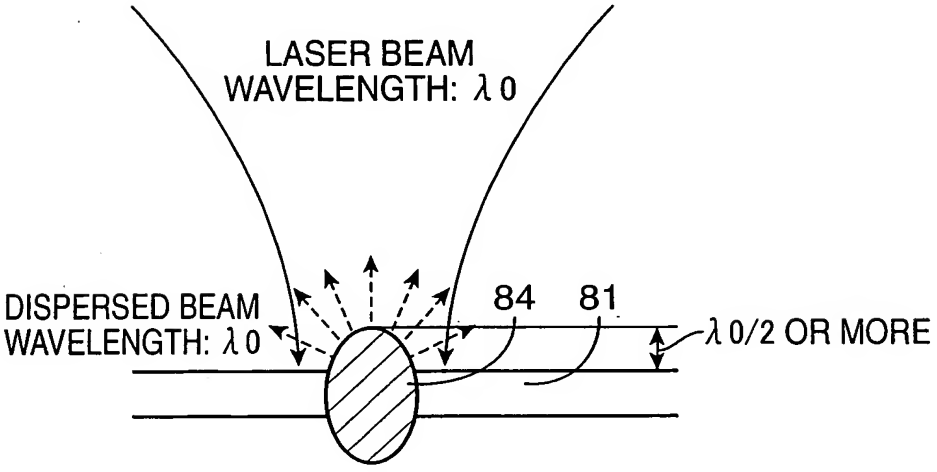

LASER BEAM
WAVELENGTH: λ0
DISPERSED BEAM
WAVELENGTH: λ0
84
81
λ0/2 OR MORE

FIG.7

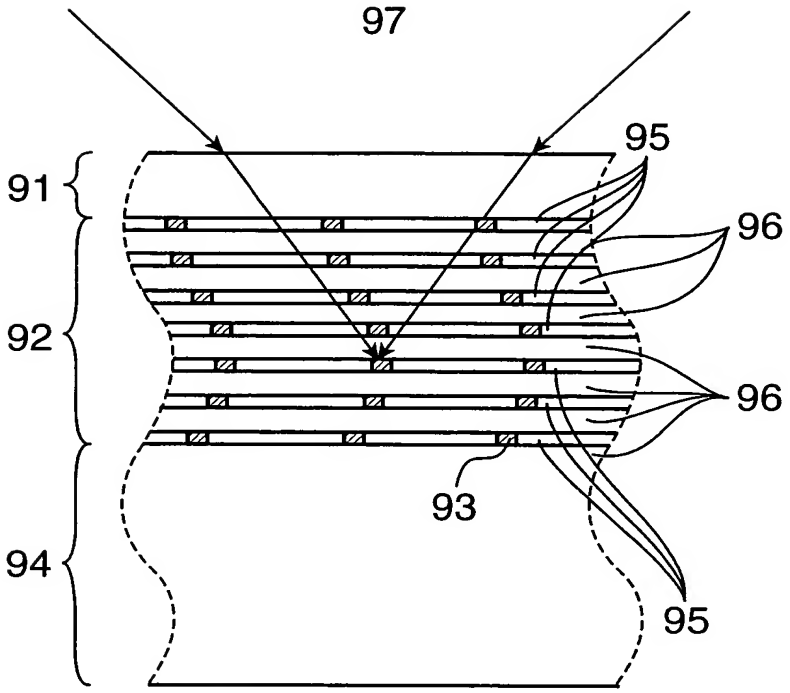


FIG.8

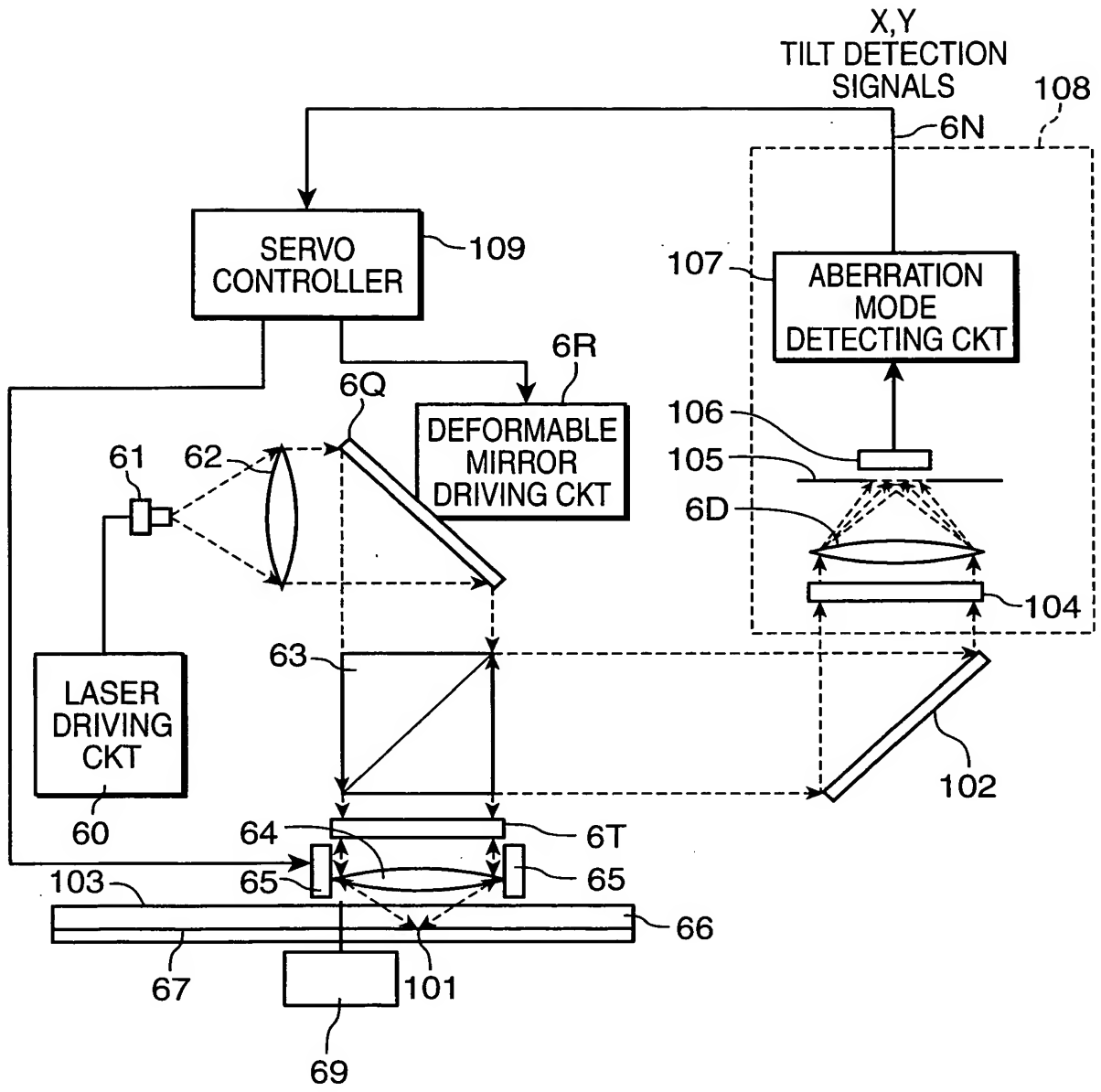

X,Y
TILT DETECTION
SIGNALS
108
6N
SERVO
CONTROLLER
109
107
ABERRATION
MODE
DETECTING CKT
6R
6Q
DEFORMABLE
MIRROR
DRIVING CKT
106
105
61
62
6D
104
63
LASER
DRIVING
CKT
102
60
64
6T
103
65
65
66
67
101
69

FIG.9

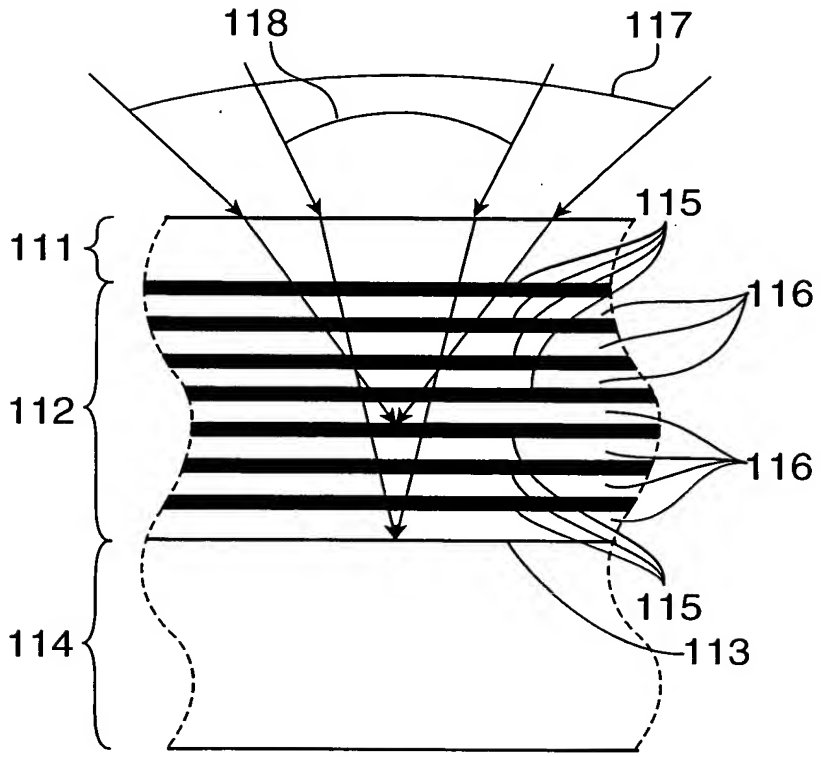


FIG.10

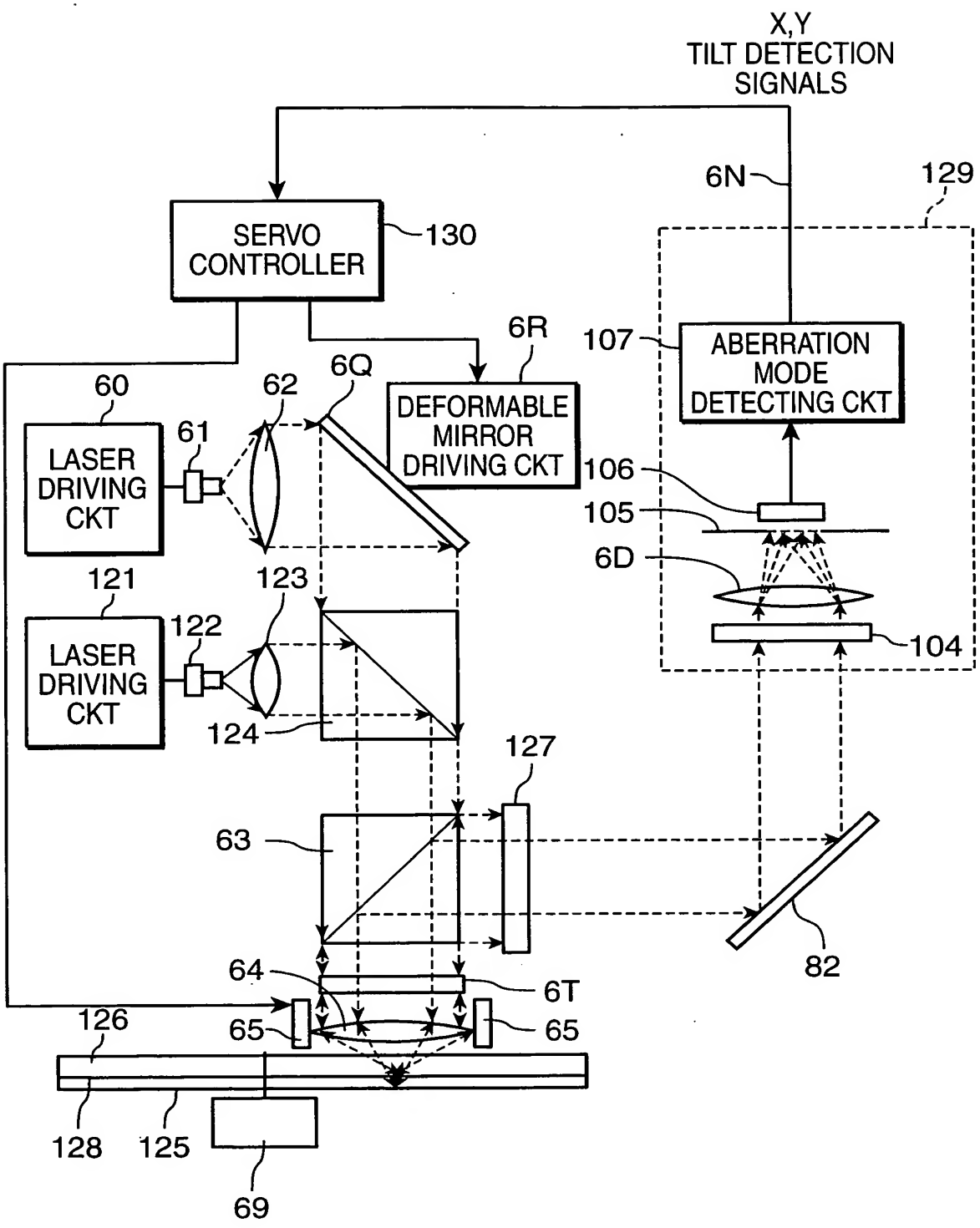

X,Y
TILT DETECTION
SIGNALS
6N
129
SERVO
CONTROLLER
130
6R
107
ABERRATION
MODE
DETECTING CKT
60
62
6Q
DEFORMABLE
MIRROR
DRIVING CKT
61
LASER
DRIVING
CKT
106
105
6D
121
123
122
LASER
DRIVING
CKT
104
124
127
63
82
64
6T
126
65
65
128
125
69

FIG.11

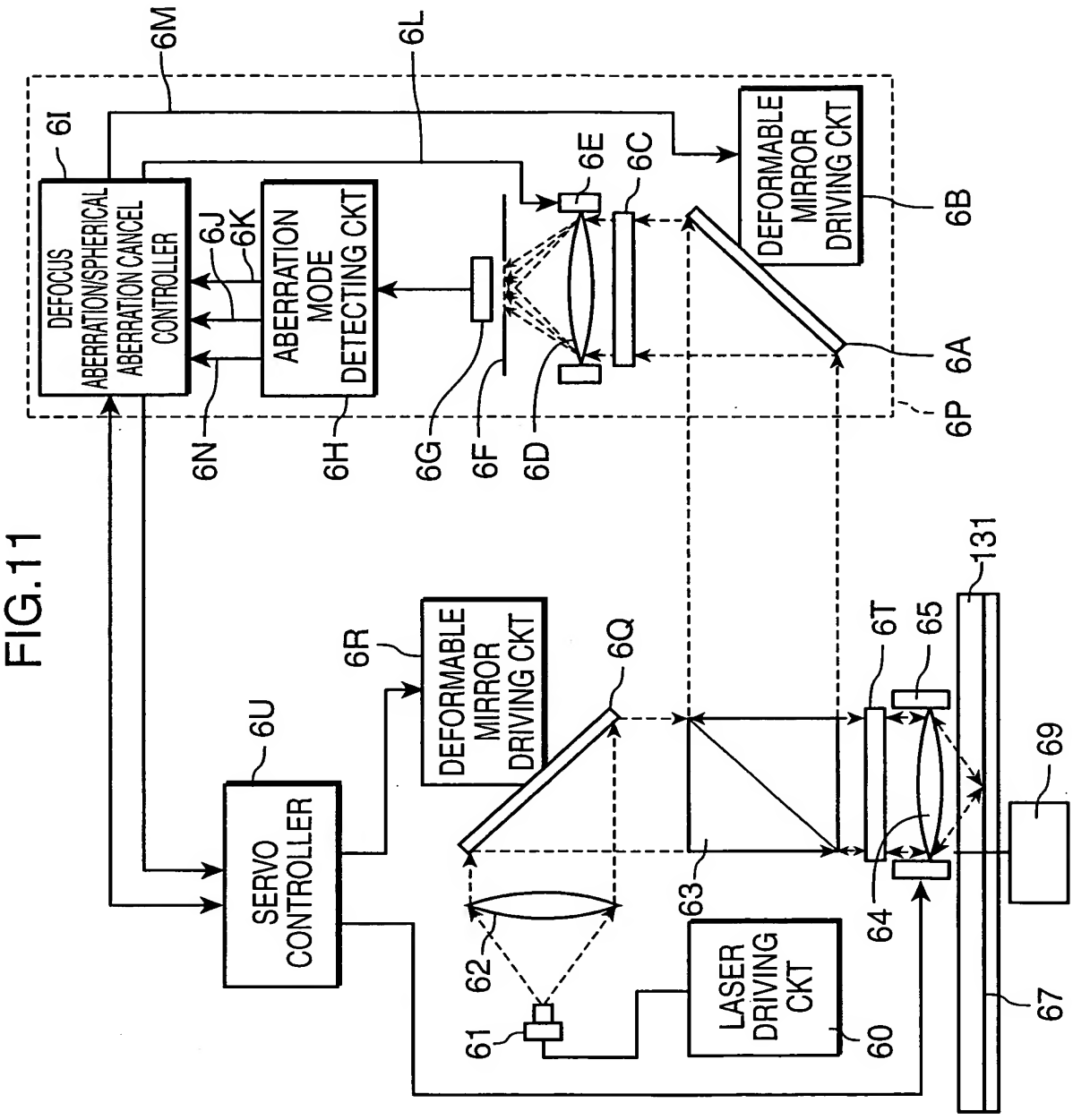

6M
6L
6I
DEFOCUS ABERRATION/SPHERICAL ABERRATION CANCEL CONTROLLER
6J
6K
ABERRATION MODE DETECTING CKT
DEFORMABLE MIRROR DRIVING CKT
6B
6E
6C
6A
6P
6N
6H
6G
6F
6D
6R
DEFORMABLE MIRROR DRIVING CKT
6Q
6U
SERVO CONTROLLER
131
6T
65
69
62
61
63
64
LASER DRIVING CKT
60
67

FIG.12

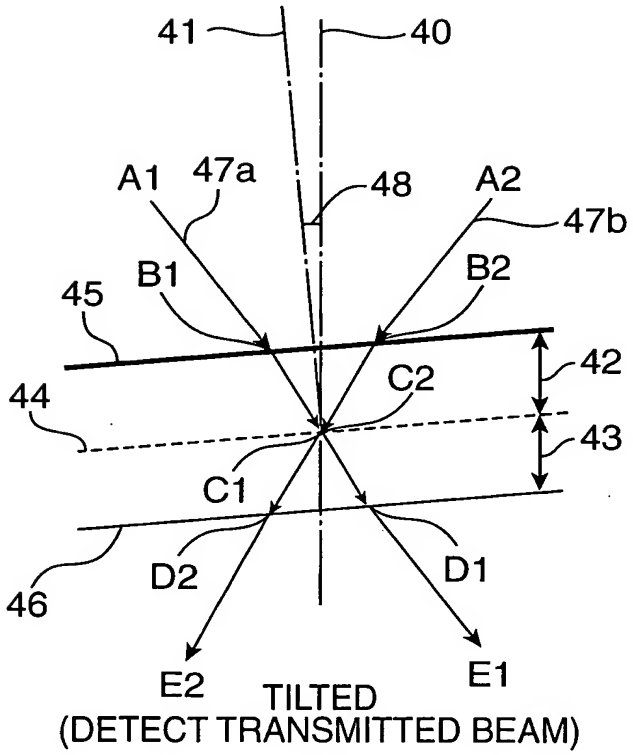

41
40
A1
47a
48
A2
47b
B1
B2
45
42
C2
44
43
C1
D2
D1
46
E2
E1
TILTED
(DETECT TRANSMITTED BEAM)

FIG.13

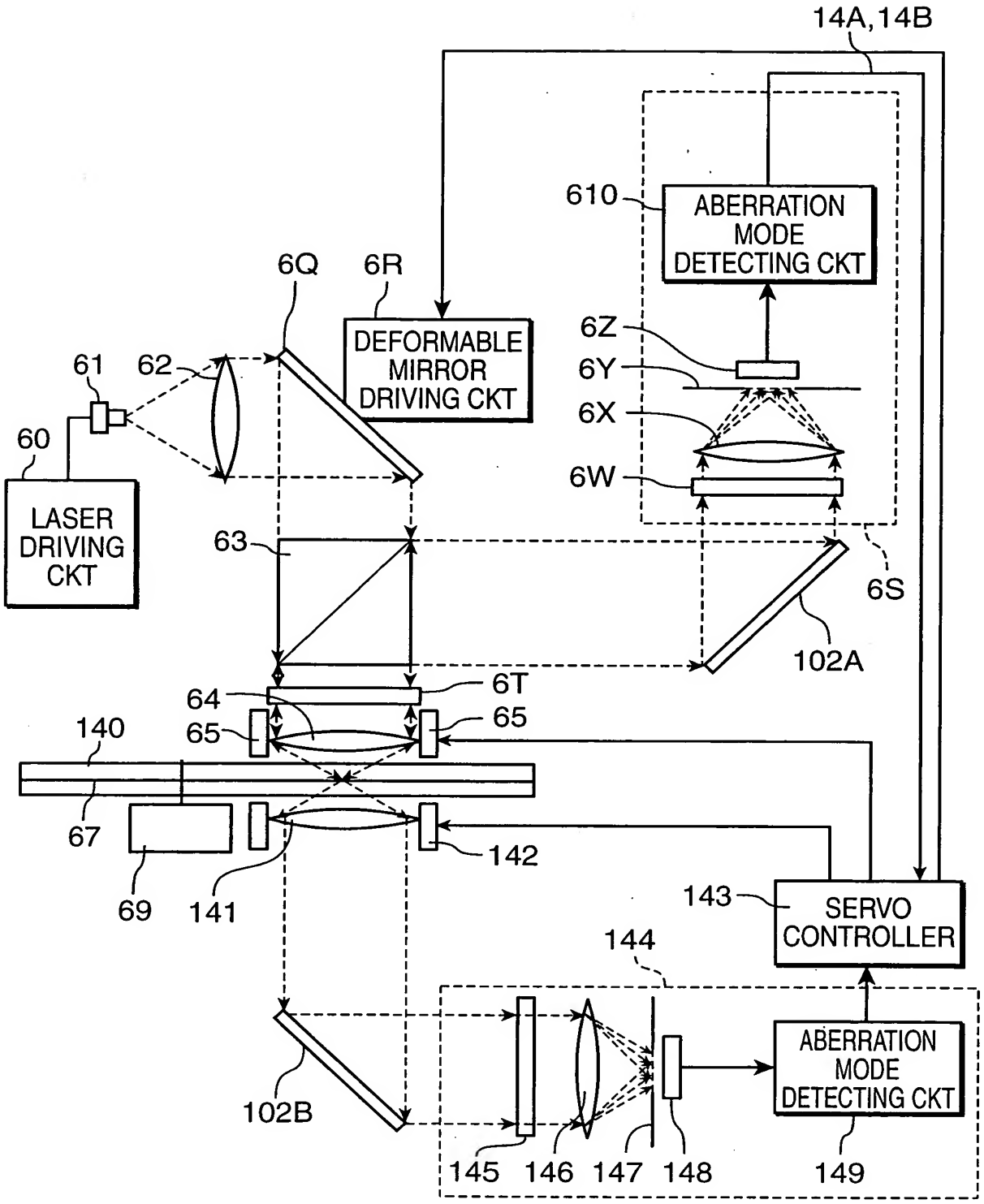
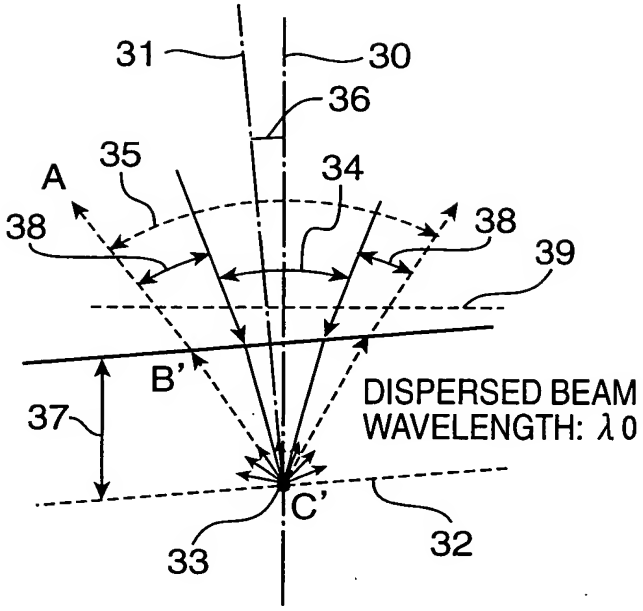
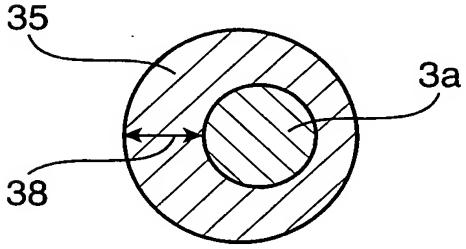

14A,14B
610
ABERRATION MODE DETECTING CKT
6Q
6R
DEFORMABLE MIRROR DRIVING CKT
6Z
6Y
6X
6W
61
62
60
LASER DRIVING CKT
63
6S
102A
64
6T
65
140
67
142
69
141
143
SERVO CONTROLLER
144
102B
ABERRATION MODE DETECTING CKT
145
146
147
148
149

FIG.14A



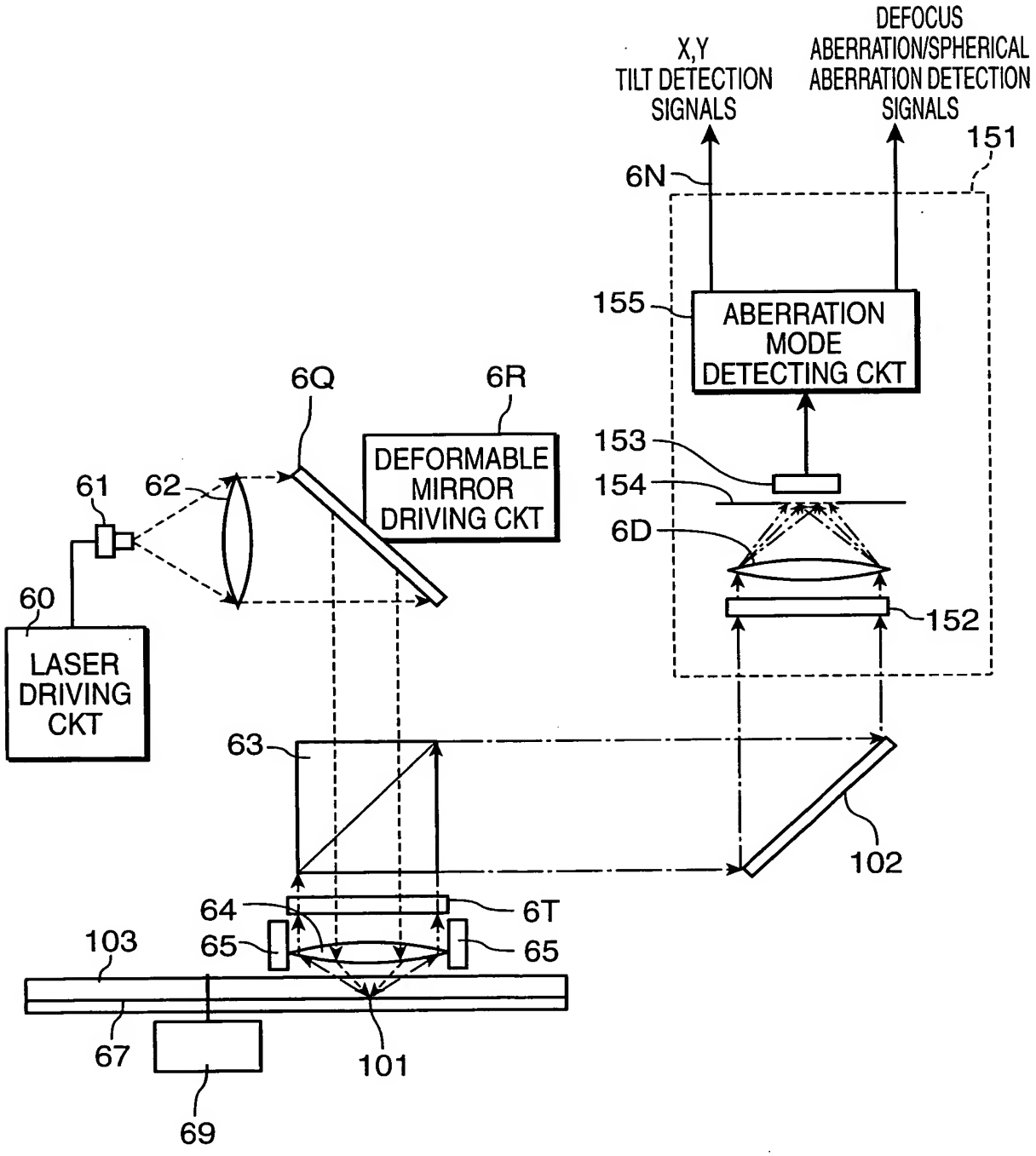
TILTED
(INCOMING BEAM WITH SMALL NUMERICAL APERTURE)

FIG.14B



INCOMING BEAM AND OUTGOING BEAM VIEWED FROM OPTICAL AXIS DIRECTION

FIG.15


X,Y
TILT DETECTION
SIGNALS
DEFOCUS
ABERRATION/SPHERICAL
ABERRATION DETECTION
SIGNALS
151
6N
155
ABERRATION
MODE
DETECTING CKT
6Q
6R
DEFORMABLE
MIRROR
DRIVING CKT
153
154
6D
61
62
60
LASER
DRIVING
CKT
152
63
102
64
6T
103
65
65
67
101
69